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| Substitute for form 1449B/PTO | | | | Complete if Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary) | | | | Application Number | |
| | | | | 10/533,844 | |
| | | | | Filing Date | |
| | | | | May 4, 2005 | |
| | | | | First Named Inventor | |
| | | Hagen, Frederick S. | | | |
| Art Unit | | 1649 | | | |
| Examiner Name | | Olga N. Chernyshev | | | |
| Attorney Docket Number | | 017881-001010US | | | |
| Sheet | 1 | of | 5 | | |

| U.S. PATENT DOCUMENTS | | | | | |
|-----------------------|-----------------------|---|--------------------------------|--|---|
| Examiner Initials* | Cite No. ¹ | Document Number Number Kind Code ² (if present) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | AA | US-5,604,102 | 02-18-1997 | McConlogue et al. | |
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| | AH | US-6,440,698 | 08-27-2002 | Gurney et al. | |
| | AI | US-2002/0127564 | 09-12-2002 | Nolan | |
| | AJ | US-2006/0275833 | 12-07-2006 | Hagen | |

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|--------------------------|-----------------------|---------------------------|---------------------|--------------------------------------|--------------------------------|--|---|--------------------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | | | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁴ |
| | | Country Code ³ | Number ⁴ | Kind Code ⁵ (if known) | | | | |
| | AK | PCT | WO 98/21589 | A1 | 05-22-1998 | University of Pennsylvania | | <input type="checkbox"/> |
| | AL | PCT | WO 98/39483 | A1 | 09-11-1998 | Ventana Genetics, Inc. | | <input type="checkbox"/> |
| | AM | PCT | WO 99/24617 | A1 | 05-20-1999 | Ventana Genetics, Inc. | | <input type="checkbox"/> |
| | AN | PCT | WO 01/49097 | A2 | 07-12-2001 | Bienkowski et al. | | <input type="checkbox"/> |
| | AO | PCT | WO 03/57165 | A2 | 07-17-2003 | The Rockefeller University | | <input type="checkbox"/> |
| | AP | PCT | WO 04/18997 | A2 | 03-04-2004 | Neurogenetics, Inc. | | <input type="checkbox"/> |
| | AQ | PCT | WO 04/42074 | A2 | 05-21-2004 | Icogen Corp. | | <input type="checkbox"/> |

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| Examiner Signature | Date Considered |
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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| NON PATENT LITERATURE DOCUMENTS | | | | |
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| Examiner Initials * | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² | |
| | AR | BROWN, "Metal-recognition by repeating polypeptides," <i>Nat. Biotechnol.</i> 15:269-272 (1997). | <input type="checkbox"/> | |
| | AS | CEDAZO-MINGUEZ <i>et al.</i> , "Nicergoline stimulates protein kinase C mediated α -secretase processing of the amyloid precursor protein in cultured human neuroblastoma SH-SY5Y cells," <i>Neurochem. Int.</i> 35:307-315 (1999). | <input type="checkbox"/> | |
| | AT | CULL <i>et al.</i> , "Screening for receptor ligands using large libraries of peptides linked to the C terminus of the lac repressor," <i>Proc. Natl. Acad. Sci. USA</i> 89:1865-1869 (1992). | <input type="checkbox"/> | |
| | AU | DE STROOPER <i>et al.</i> , "Exchanging the extracellular domain of amyloid precursor protein for horseradish peroxidase does not interfere with α -secretase cleavage of the β -amyloid region, but randomizes secretion in Madin-Darby canine kidney cells," <i>J. Biol. Chem.</i> 270:30310-30314 (1995). | <input type="checkbox"/> | |
| | AV | FIELDS and SONG, "A novel genetic system to detect protein-protein interactions," <i>Nature</i> 340:245-246 (1989). | <input type="checkbox"/> | |
| | AW | GAMES <i>et al.</i> , "Alzheimer-type neuropathology in transgenic mice overexpressing V717F β -amyloid precursor protein," <i>Nature</i> 373:523-527 (1995). | <input type="checkbox"/> | |
| | AX | GILCHRIST <i>et al.</i> , "Use of peptides-on-plasmids combinatorial library to identify high-affinity peptides that bind rhodopsin," <i>Methods Enzymol.</i> 315:388-404 (2000). | <input type="checkbox"/> | |
| | AY | GOTZ <i>et al.</i> , "Formation of neurofibrillary tangles in P301L tau transgenic mice induced by A β 2 fibrils," <i>Science</i> 293:1491-1495 (2001). | <input type="checkbox"/> | |
| | AZ | HARTLEY <i>et al.</i> , "Protofibrillar intermediates of amyloid β -protein induce acute electrophysiological changes and progressive neurotoxicity in cortical neurons," <i>J. Neurosci.</i> 19:8876-8884 (1999). | <input type="checkbox"/> | |
| | BA | HSIAO <i>et al.</i> , "Correlative memory deficits, A β elevation, and amyloid plaques in transgenic mice," <i>Science</i> 274:99-102 (1996). | <input type="checkbox"/> | |

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| Examiner Initials * | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
| | BB | KANG <i>et al.</i> , "The precursor of Alzheimer's disease amyloid A4 protein resembles a cell-surface receptor," <i>Nature</i> 325:733-736 (1987). | <input type="checkbox"/> |
| | BC | KAWARABAYASHI <i>et al.</i> , "Age-dependent changes in brain, CSF, and plasma amyloid β protein in the Tg2576 transgenic mouse model of Alzheimer's disease," <i>J. Neurosci.</i> 21:372-381 (2001). | <input type="checkbox"/> |
| | BD | KINSELLA <i>et al.</i> "Retrovirally delivered random cyclic peptide libraries yield inhibitors of interleukin-4 signaling in human B cells," <i>J. Biol. Chem.</i> 277:37512-37518 (2002). | <input type="checkbox"/> |
| | BE | KJAERGAARD <i>et al.</i> , "Novel Zn ²⁺ -chelating peptides selected from a fimbria-displayed random peptide library," <i>Appl. Environ. Microbiol.</i> 67:5467-5473 (2001). | <input type="checkbox"/> |
| | BF | LABEAN and KAUFFMAN, "Design of synthetic gene libraries encoding random sequence proteins with desired ensemble characteristics," <i>Protein Sci.</i> 2:1249-1254 (1993). | <input type="checkbox"/> |
| | BG | LAMMICH <i>et al.</i> , "Constitutive and regulated α -secretase cleavage of Alzheimer's amyloid precursor protein by a disintegrin metalloprotease," <i>Proc. Natl. Acad. Sci. USA</i> 96:3922-3927 (1999). | <input type="checkbox"/> |
| | BH | LOPEZ-PEREZ <i>et al.</i> , "Protein convertase activity contributes to the processing of the Alzheimer's β -amyloid precursor protein in human cells: evidence for a role of the prohormone convertase PC7 in the constitutive α -secretase pathway," <i>J. Neurochem.</i> 73:2056-2062 (1999). | <input type="checkbox"/> |
| | BI | LU <i>et al.</i> , "Expression of thioredoxin random peptide libraries on the <i>Escherichia coli</i> cell surface as functional fusions to flagellin: a system designed for exploring protein-protein interactions," <i>Biotechnology</i> 13:366-372 (1995). | <input type="checkbox"/> |
| | BJ | MAZUR-KOLECKA <i>et al.</i> , "Accumulation of Alzheimer amyloid-peptide in cultured myocytes is enhanced by serum and reduced by cerebrospinal fluid," <i>J. Neuropathol. Exp. Neurol.</i> 56(3):263-272, Abstract only, (1997). | <input type="checkbox"/> |
| | BK | MILLER <i>et al.</i> , "Use of retroviral vectors for gene transfer and expression," <i>Methods Enzymol.</i> 217:581-599 (1993). | <input type="checkbox"/> |
| | BL | MULLAN <i>et al.</i> , "A pathogenic mutation for probable Alzheimer's disease in the APP gene at the N-terminus of β -amyloid," <i>Nat. Genet.</i> 1:345-347 (1992). | <input type="checkbox"/> |

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| | BM | MURTHY, "Characterization of the interleukin 3 receptor," <i>Exp. Hematol.</i> 18(1):11-17 (1990). | <input type="checkbox"/> | |
| | BN | NILSBERTH <i>et al.</i> , "The 'Arctic' APP mutation (E693G) causes Alzheimer's disease by enhanced A β protofibril formation," <i>Nat. Neurosci.</i> 4:887-893 (2001). | <input type="checkbox"/> | |
| | BO | NILSSON <i>et al.</i> , "a-1-antichymotrypsin promotes β -sheet amyloid plaque deposition in a transgenic mouse model of Alzheimer's disease," <i>J. Neurosci.</i> 21:1444-1451 (2001). | <input type="checkbox"/> | |
| | BP | NORMAN <i>et al.</i> , "Genetic selection of peptide inhibitors of biological pathways," <i>Science</i> 285:591-595 (1999). | <input type="checkbox"/> | |
| | BQ | PARVATHY <i>et al.</i> , "Alzheimer's amyloid precursor protein α -secretase is inhibited by hydroxamic acid-based zinc metalloprotease inhibitors: similarities to the angiotensin converting enzyme secretase," <i>Biochemistry</i> 37:1680-1685 (1998). | <input type="checkbox"/> | |
| | BR | PONCET, "CD24, a glycosylphosphatidylinositol-anchored molecules is transiently expressed during the development of human central nervous system and is a marker of human neural cell lineage tumors," <i>Acta. Neuropathol.</i> 91(4):400-408, Abstract only, (1996). | <input type="checkbox"/> | |
| | BS | RIAN <i>et al.</i> , "A signal sequence trap based on cell enrichment using anti-CD19 antibody coated magnetic beads," <i>Scand. J. Immunol.</i> 54:280-284 (2001). | <input type="checkbox"/> | |
| | BT | SCOTT and SMITH, "Searching for peptide ligands with an epitope library," <i>Science</i> 249:386-390 (1990). | <input type="checkbox"/> | |
| | BU | SELKOE, "Alzheimer's disease: genes, proteins, and therapy," <i>Physiol. Rev.</i> 81:741-766 (2001). | <input type="checkbox"/> | |
| | BV | SELKOE, "Alzheimer's disease is a synaptic failure," <i>Science</i> 298:789-791 (2002). | <input type="checkbox"/> | |
| | BW | SINHA, <i>et al.</i> , "Purification and cloning of amyloid precursor protein β -secretase from human brain," <i>Nature</i> 402:537-540 (1999). | <input type="checkbox"/> | |
| | BX | SISODIA, " β -amyloid precursor protein cleavage by a membrane-bound protease," <i>Proc. Natl. Acad. Sci. USA</i> 89:6075-6079 (1992). | <input type="checkbox"/> | |
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| | BY | STEINER and HAASS, "Intramembrane proteolysis by presenilins," <i>Nat. Rev. Mol. Cell. Biol.</i> 1:217-224 (2000). | | <input type="checkbox"/> |
| | BZ | WESTERMAN <i>et al.</i> , "The relationship between A β and memory in the Tg2576 mouse model of Alzheimer's disease," <i>J. Neurosci.</i> 22:1858-1867 (2002). | | <input type="checkbox"/> |
| | CA | WILSON <i>et al.</i> , "The use of mRNA display to select high-affinity protein-binding peptides," <i>PNAS</i> 98:3750-3755 (2001). | | <input type="checkbox"/> |

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